

AMENDMENTS TO THE SPECIFICATION:

Please replace paragraph [0002] with the following amended paragraph:

[0002] At least some aspects of this invention were made with Government support under contract nos. ~~N00014-98-1-05907~~ N00014-98-1-0597 and NAG-1-01061. The Government may have certain rights in this invention.

Please replace paragraph [0006] with the following amended paragraph:

[0006] U.S. Patent No. 6,630,772 _____ (~~Serial No. 09/296,572~~ entitled "Device Comprising Carbon Nanotube Field Emitter Structure and Process for Forming Device",[[]]) the disclosure of which is incorporated herein by reference, in its entirety, discloses a carbon nanotube-based electron emitter structure.

Please replace paragraph [0007] with the following amended paragraph

[0007] U.S. Patent Application No. _____ (~~Serial No. 09/351,537~~ entitled "Device Comprising Thin Film Carbon Nanotube Electron Field Emitter Structure",[[]]) the disclosure of which is incorporated herein by reference, in its entirety, discloses a carbon-nanotube field emitter structure having a high emitted current density.

Please replace paragraph [0010] with the following amended paragraph:

[0010] U.S. Patent No. 6,553,096 _____ (~~Serial No. 09/679,303~~ entitled "X-Ray Generating Mechanism Using Electron Field Emission Cathode"[[]]), the disclosure of which is incorporated herein by reference, in its entirety, discloses an X-ray generating device incorporating a nanostructure-containing material.

Please replace paragraph [0012]-[0015] with the following amended paragraph:

[0012] U.S. Patent No. 6,787,122 _____ (~~Serial No. 09/881,684~~ entitled "Method of Making Nanotube-Based Material With Enhanced Field Emission"[[]]), the

disclosure of which is incorporated herein by reference, in its entirety, discloses a technique for introducing a foreign species into the nanotube-based material in order to improve the properties thereof.

[0013] U.S. Patent No. 6,876,724 _____ (Serial No. 10/051,183 entitled "Large-Area Individually Addressable Multi-Beam X-Ray System and Method of Forming Same"[[]]), the disclosure of which is incorporated herein by reference, in its entirety, discloses a structure to generate x-rays having a plurality of stationary and individually electrically addressable field emissive electron sources, such as carbon nanotubes.

[0014] U.S. Patent Application Publication No. 2003/0180472 No. _____ (Serial No. 10/103,803 entitled "Method for Assembling Nanoobjects"[[]]), the disclosure of which is incorporated herein by reference, in its entirety, discloses a technique for the self assembly of a macroscopic structure with preformed nanoobjects, which may be processed to render a desired aspect ratio and chemical functionality.

[0015] U.S. Patent Application Publication No. 2004/0173378 _____ (~~attorney docket no. 032566-043~~) (entitled "Methods for Assembly of Nanostructure-Containing Materials and Related Articles"[[]]), the disclosure of which is incorporated herein by reference, in its entirety, describes various electrophoretic-type methods for assembling and attaching nanostructure-containing materials to various objects.

Please replace paragraph [0038] with the following amended paragraph:

[0038] The raw nanostructure-containing material can be subjected to purification after formation. There are a number of techniques for purifying the raw materials. According to one preferred embodiment, the raw material can be purified using a reflux reaction in a suitable solvent, such as a combination of peroxide (H_2O_2) and water. The H_2O_2 concentration can be 1-40% by volume, preferably about 20% by volume H_2O_2 , with subsequent rinsing in CS_2 , then methanol, followed by filtration. According to an exemplary technique, approximately 10-100 ml of H_2O_2 is introduced into the medium for every 1-10 mg of nanotubes in the medium, and the reflux reaction is carried out at a temperature of 20°C - 100°C (see, for example, U.S. Patent No. 6,553,096 _____ (~~Serial No. 09/679,303~~)).